YOR920030331US1
Gustavson et al
SCK

100

Matrix Operation: $C = C - A^T * B$

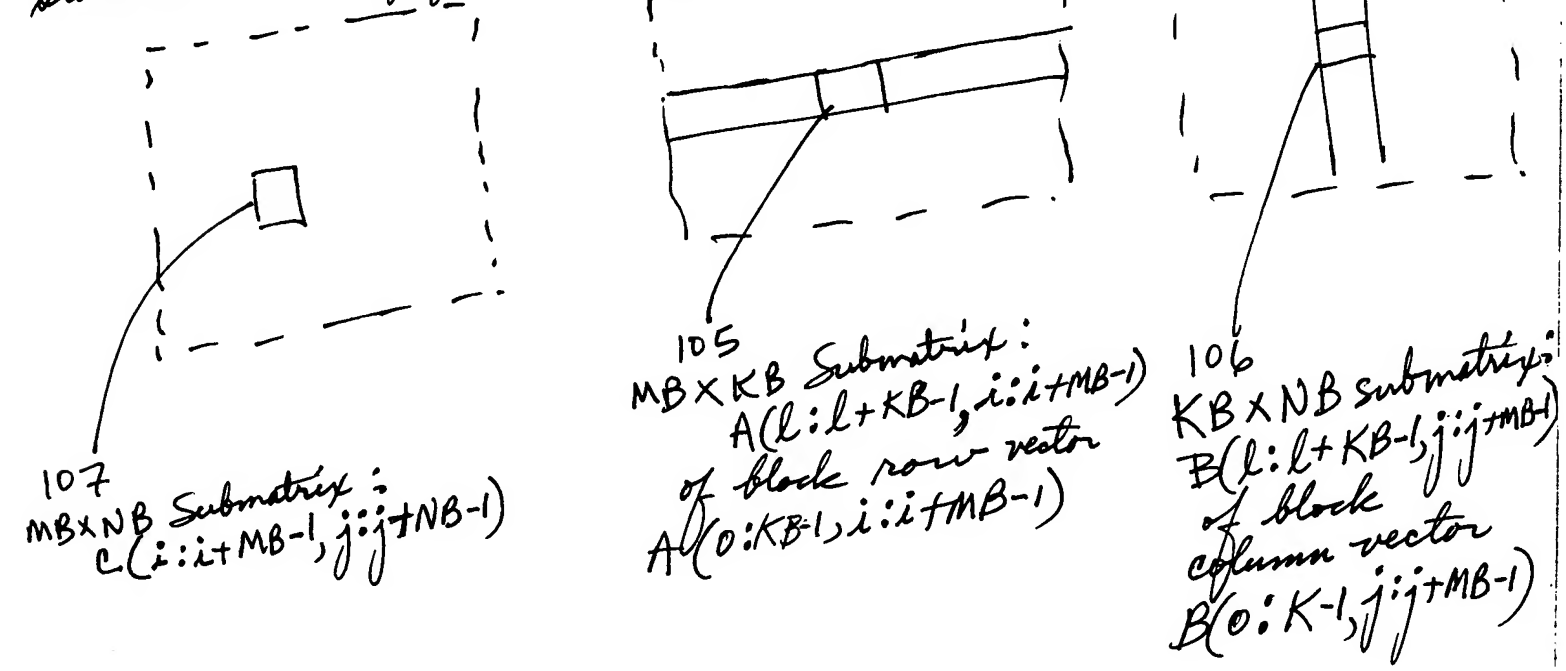
104

j = 0, N-1, NB
i = 0, M-1, MB
l = 0, K-1, KB

Matrix C — 103
(Entire matrix usually stored in column major format)

Matrix A — 101
(Entire matrix usually stored in row major format)

Matrix B — 102
(Entire matrix usually stored in column major format)



107
MB×NB Submatrix:
C(i:i+MB-1, j:j+NB-1)

105
MB×KB Submatrix:
A(l:l+KB-1, i:i+MB-1)
of block row vector
A(0:KB-1, i:i+MB-1)

106
KB×NB submatrix:
B(l:l+KB-1, j:j+MB-1)
of block
column vector
B(0:K-1, j:j+MB-1)

FIGURE 1

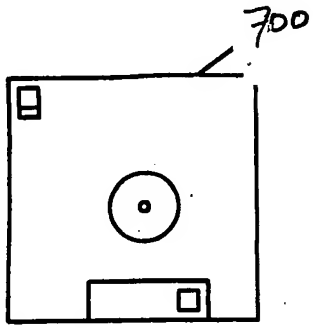


FIGURE 7

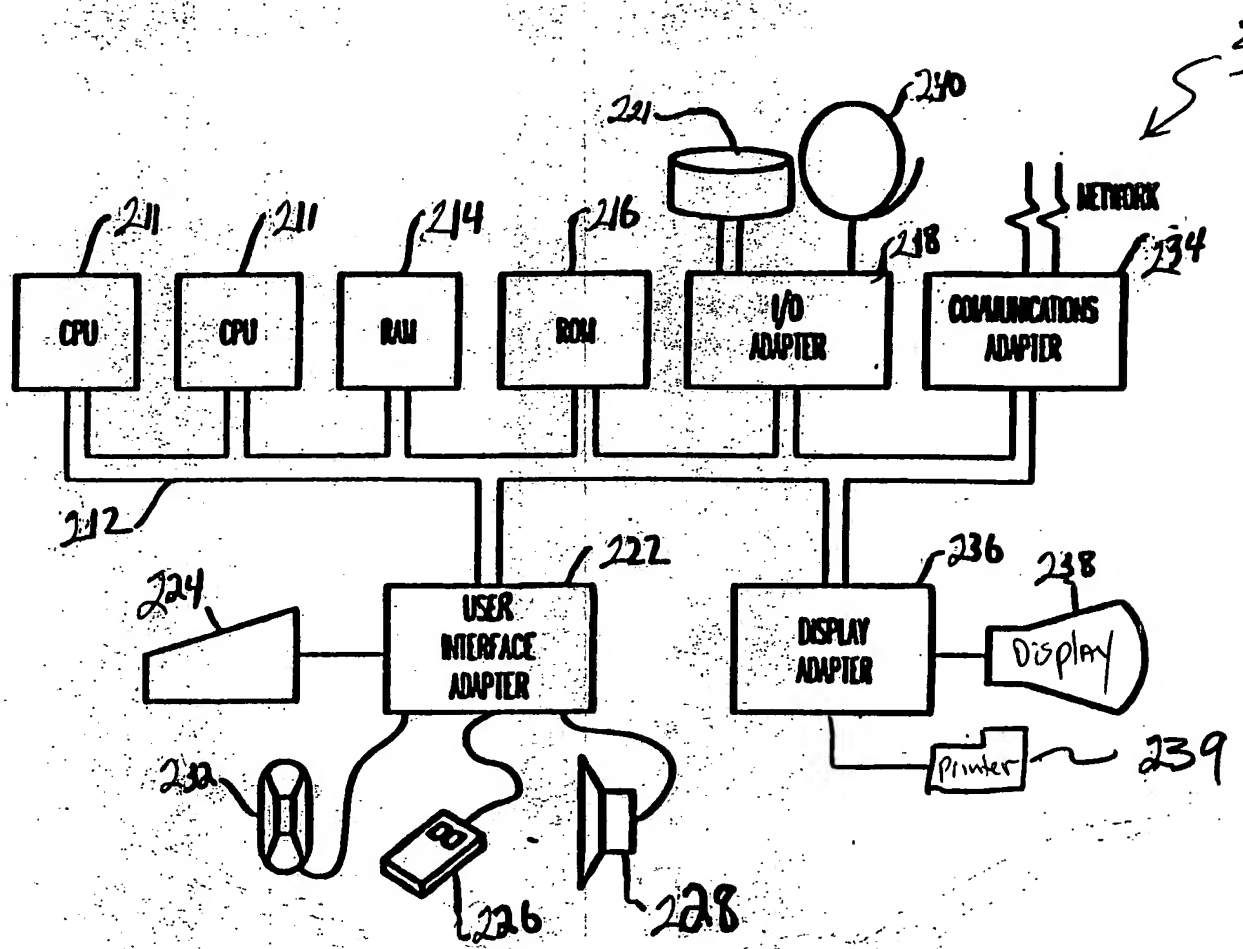


FIGURE 2

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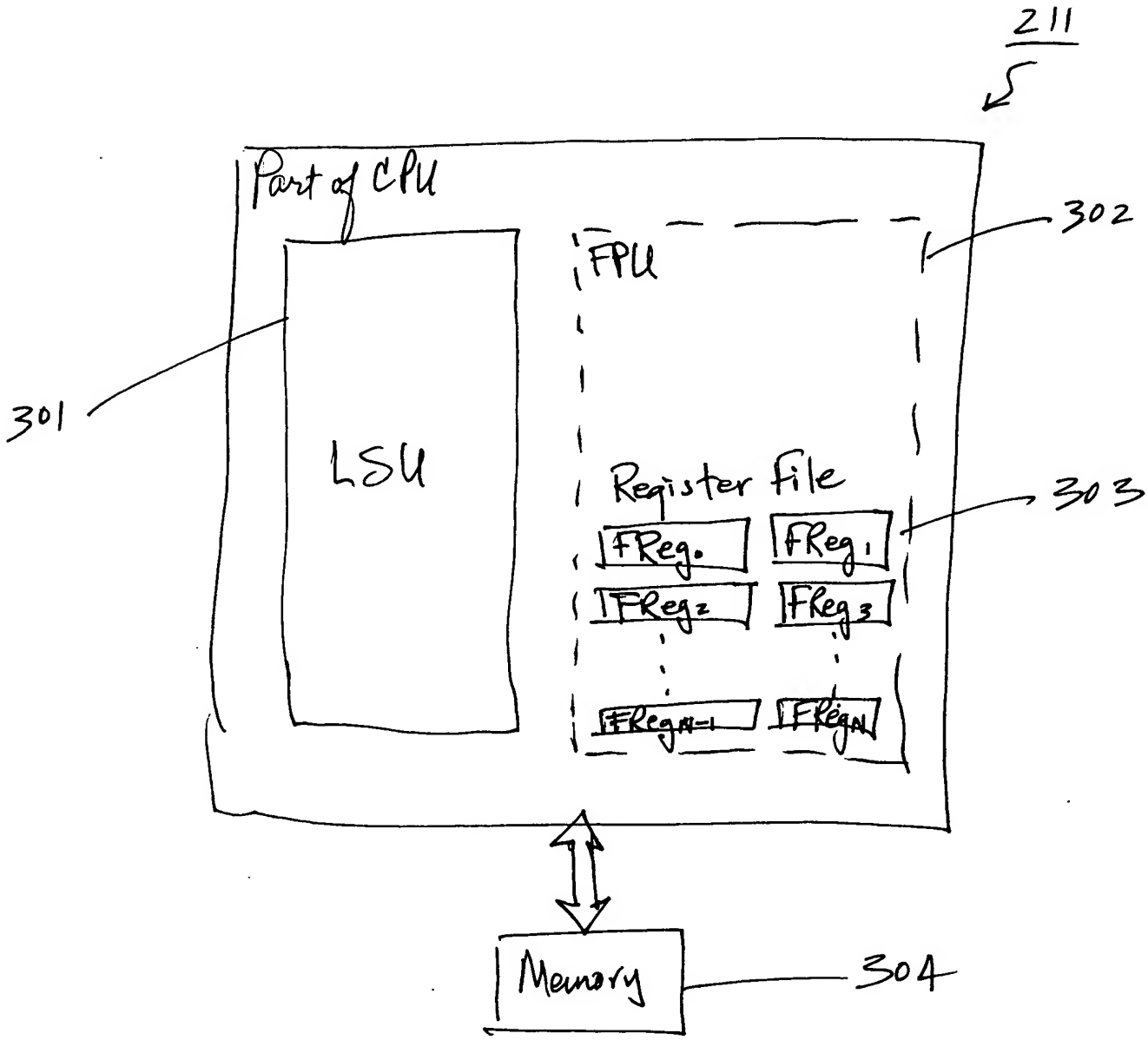

FIGURE 3

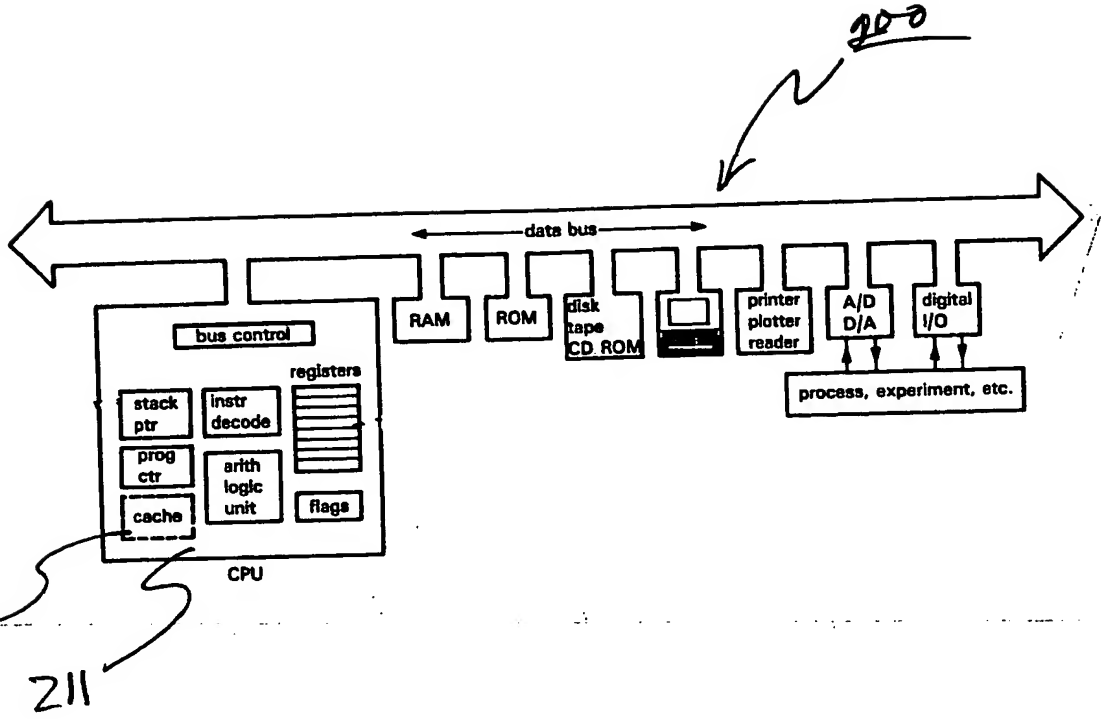
200
data bus
RAM
ROM
disk
tape
CD ROM
printer
plotter
reader
A/D
D/A
digital
I/O
process, experiment, etc.
bus control
registers
stack
ptr
instr
decode
prog
ctr
arith
logic
unit
flags
cache
CPU
401
211

FIGURE 4

500

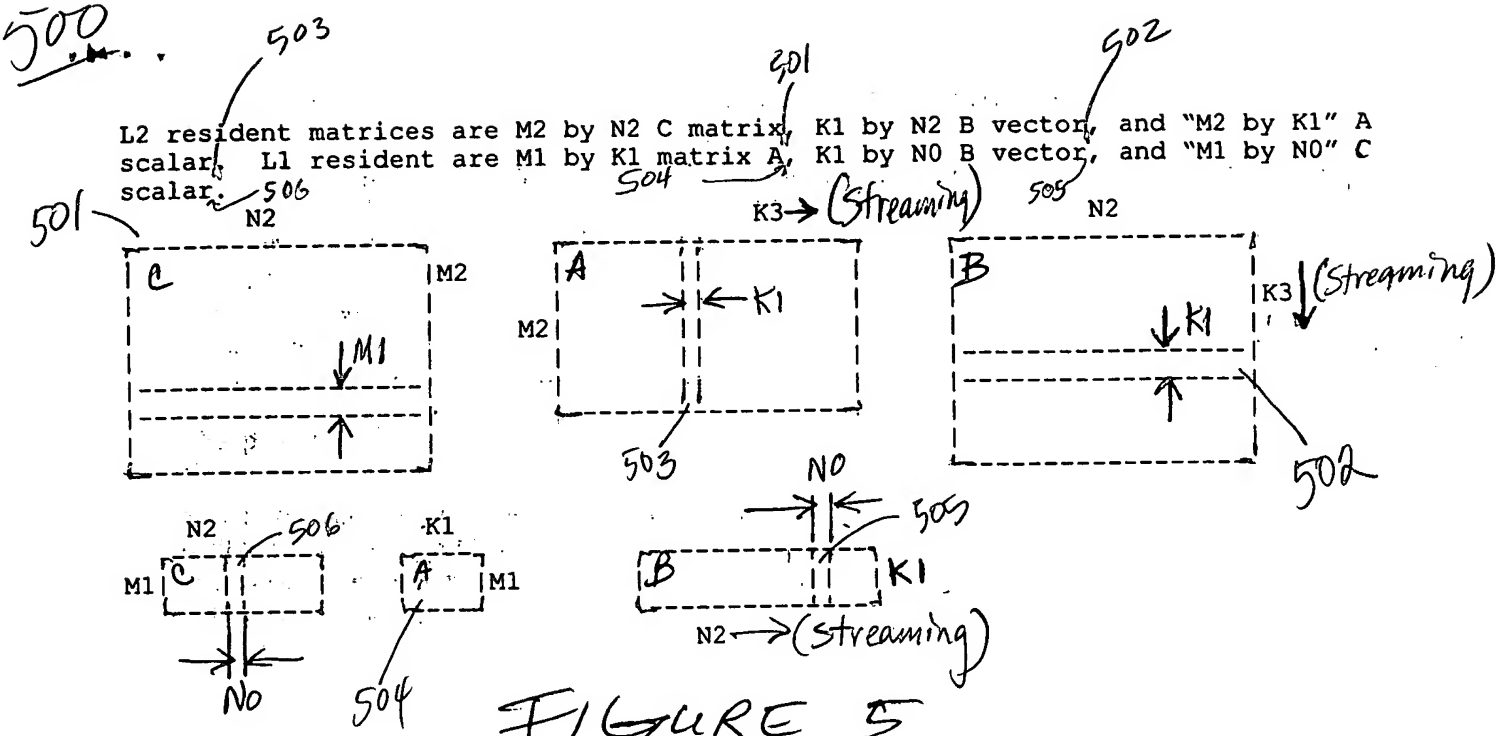

FIGURE 5

600

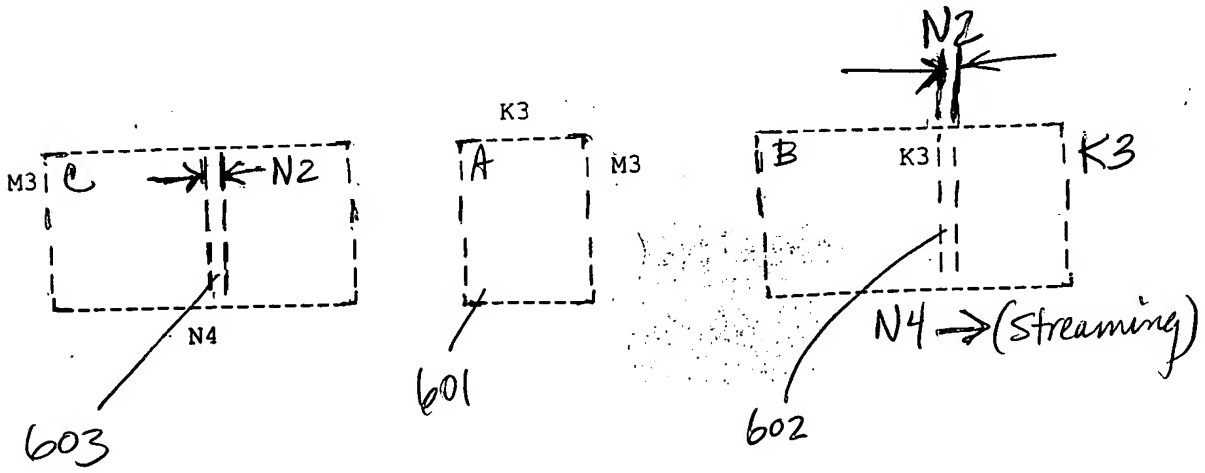

FIGURE 6